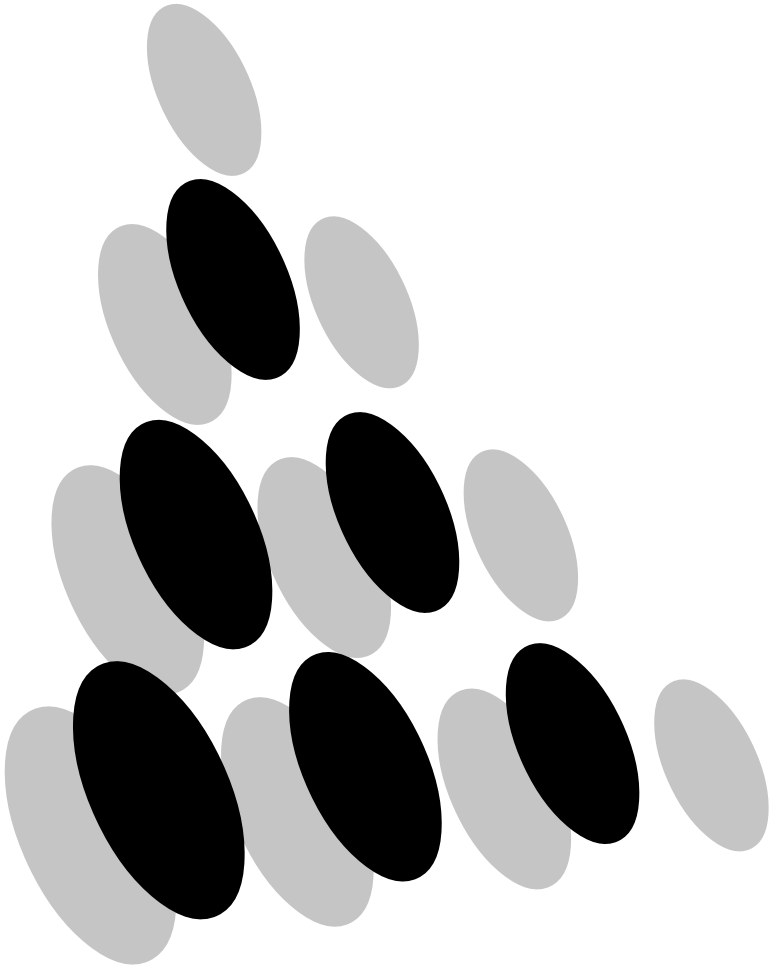
SERVIS

8-port KVM Switch Integrated Console Drawer [FD-1008AT]
16-port KVM Switch Integrated Console Drawer [FD-1016AT]

User's Manual



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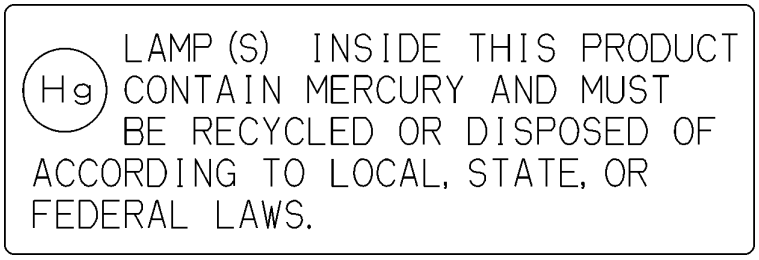
FCC WARNING:
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules.
These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.
Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



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1. Preface

Thank you for your purchase of this rack-mount KVM Switch Integrated Console Drawer.
This product will bring you great improvement of efficiency and server switching functionality of your workspace.
Space that was used in previous configurations can now be used more freely due to our compact sliding module design.
The 15-inch TFT monitor has a resolution of 1024 x 768 dots with 16,770,000 colors.
Also, it is equipped with a keyboard and 3-button pointing device.
The Console Drawer can be used for the systems that have the support for Analog RGB separate sync video signal and input device interface of PS/2, USB, Sun I/O and USB.
The Console Drawer cannot Display over the specification that LCD is supporting.
This user's manual applies to both the 8-port and 16-port KVM Switches. However, unless otherwise mentioned, all descriptions in this manual refer to the 8-port KVM Switch.

*KVM Switch: Keyboard Video Mouse Switch

1.1 Conventions

Symbols and terminology that are used in this manual are described below.

	This symbol indicates the possibility of physical damage (to this product, or server) or physical injury, which may result through improper operation.

	This logo indicates supplemental information, comments or hints

- Text that is preceded by a sequence of numbers (1, 2, etc.) means that the operations must be performed in the indicated order.
- References to important chapter titles and terminology are in brackets [ ].

1.2 Packing List

Make sure that the items in the following list were included in the shipping package.

- KVM Switch Integrated Console Drawer ×1
- Operation manual (this manual) ×1
- AC Power cable (2m) *1 ×1

*1. For USA only

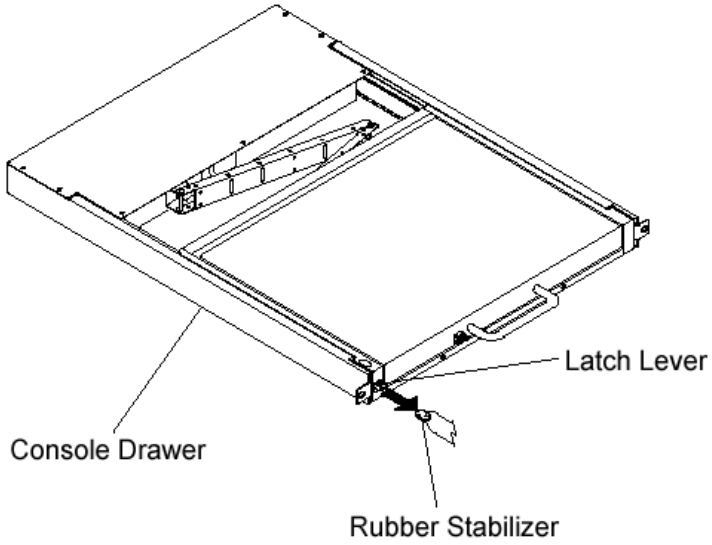
We recommend keeping the box and packing material in which the Console Drawer was purchased, and they may be required when moving it to another location.
If you have any problems in our products, contact with your place of purchase or your salesperson.

CAUTION Please note the safety information in [Important Notices].

1. Unpack the Console Drawer and check that it has not been damaged in transit.

2. Remove the rubber stabilizer from the front left side of the Console Drawer.

Point The rubber stabilizer is inserted to prevent the Console Drawer from sliding when installing or moving it. Be sure to keep it after finishing the installation for when it needs to be used again.



"Rubber stabilizer removal"

2. Important Notices

This chapter contains cautions that must be taken when operating the Console Drawer and information related to safety. Carefully read this chapter to use the Console Drawer correctly.

2.1 Safety Information

Precautions

This device conforms to the safety standard related to information processing equipment such as electronic office machines that are used in an office environment. In details of standards, please refer to the technical specifications described in this end of manual.

- To prevent extreme bumping, shaking, vibration while moving the Console Drawer, please use the original shipping container or a similar box, in addition make sure if it fits well to the product for protection.
- During installation and before using the Console Drawer, carefully read [Installation] and the section about environmental conditions in [Technical Specifications] to use the Console Drawer correctly.
- Moving the Console Drawer from a cold environment to the installation location may cause condensation to occur. Before using the Console Drawer, allow it to dry out completely and to reach the ambient temperature of the installation location.
- Make sure that the local power supply voltage is within the acceptable range of the Console Drawer. Make sure that the rated voltage meets the specifications of this device (Refer to [Technical Specifications] and the model plate on this device).
- The Console Drawer's power cable is specially certified. Do not connect it to anything other than a rack power outlet in order to avoid electric shocks and/or short circuits.
- Arrange the adequate area to have the plug quickly pulled out around the Console Drawer's power socket or the rack's power outlet.
- Lay all the cables so that they will not be damaged. Refer to the relevant sections in [Installation] when connecting and removing cables.
- Do not connect or remove the data transmission cables during thunderstorms.
- Do not allow foreign substances (such as necklaces or paperclips) or liquids inside the Console Drawer.
- In an emergency (such as: damage to the housing, parts or cables; or liquid or a foreign object has fallen into the Console Drawer) remove the power cable as soon as possible and contact your place of purchase or our authorized maintenance person.
- Do not disassemble or modify the Console Drawer for any purpose, which may cause electric shocks, or fire and so on. Only licensed engineers may repair the Console Drawer.
- Do not pull up cable with a jerk. Be sure to hold connector when pulling up cable.
- Avoid using the keyboard when in poor health or for extended periods of time.
- Avoid operating the Console Drawer with wet hands.

- Do not plug or unplug connectors with wet hands.
- Do not place unnecessary items, such as cups, on the top of the Console Drawer.
- Do not modify or repair the Console Drawer.
- Only authorized personnel may disassemble, remove or switch parts (such as power supply units) that bear a warning mark (such as a lightning bolt mark).
- Only the resolutions and refresh rates specified in [Adjusting the Monitor] can be set. Doing settings other than those noted may damage the monitor.
- To prevent interference, it is necessary to adequately isolate the data cables connected to peripheral equipment.
- To cut off the power supply, unplug the power cable from the rack power outlet
- Follow the instructions in the appropriate section in [Operation] when cleaning server.
- Keep this manual beside your Console Drawer at all times.
- Do not use the Console Drawer as a stepladder or lean against it with it drawn out. Doing so may unbalance the rack, causing it to fall over.
- When the Console Drawer is drawn out, be careful not to bump into it, which may cause injury. It is recommended to retract the Console Drawer into the rack when not using it, or when handling other devices in the rack such as servers or peripherals.
- Some limited life components (such as the LCD, etc.) are included in this product. In cases of extended continuous use, the performance of these components is easily decreased.
- To cut the power supply, unplug the power plug from the grounded power outlet.

Safety Instructions

Read the "Safety Instructions" before use to ensure proper use of this product. Safety Instructions contained in this section are written for the user to avoid any damage to property or self-injury. Please read the following carefully:

- Verify that the power to the server is off before handling any connectors. Also, be sure to discharge any static electricity. Connecting or disconnecting the connectors while carrying a static charge or while the power to the server are on may damage the server or this device. Note that damage of this kind is not covered by the warranty.
- Connecting with server requires special optional cables (1.8m, 3m and 5m cables for PS/2, USB, Sun I/O and USB interface). The maximum cable length is 5m. Use a 1.8m cable for cascaded connections. Please note that cables longer than specified are not covered by the warranty.
- Only PC (machine) and Sun server can be hooked up to this device, and each server must be equipped with the following type of keyboard, mouse and monitor connectors with the unique optional cables. Other types are not supported. Additionally, the analog RGB composite video signal is not support in the monitor part. The Console Drawer cannot Display over the specification that LCD is supporting.
- Use of standard equipment is recommended because special keyboards (programmable, wireless) and mice (wireless or that require a special driver) may not be supported/operate.

- The keyboard connector for this switch device is a PS/2 type (Mini DIN 6P female), but you can connect an AT-type (DIN 5P male) keyboard by using a PS/2 ↔ AT adapter. A USB type keyboard may not be used as the console keyboard.
- The mouse connector for the switch device is exclusively for PS/2 connection (Mini DIN 6P female). A serial or USB-type mouse may not be used as the console mouse.
- When using a mouse with a scroll function of a mouse with PS/2 wheel, There is a possibility it does not work properly in the case the scrolling is beyond spec(support) Also, depending on the software used, the scroll function may not work correctly.
- The keyboard and mouse connectors are the same shape. Be sure the colors match to connect them correctly. If they are forced in or connected incorrectly, the connected devices may not function, or may cause device failure.
- Set up the console's keyboard and mouse with each server correctly. If they are not set correctly they will not operate normally.
- Hook up the cables for each port to the same server. If the monitor, keyboard, and mouse port numbers are wrong, you will not be able to select the server correctly.
- A DVI (Digital Video Interface) compatible display can not be connected.
- When connecting a monitor other than the one for Console Drawer, use one that is multi-scan compatible, and set the correct resolution. KVM Switch supports resolution 1600 ×1200, refresh rate 75Hz. Also, the display may be shifted off center after switching, which depends on the monitor and resolution settings. Setting with monitor or video card is required when this happens. ∗This device's LCD can display up to 1024∗768 dots (75Hz). When using external monitor, up to 1600∗1200 dots display (75Hz) is possible.
- Degradations in high resolution screen quality, such as ghosts or blurring, may be due to the monitor cable or video card. Also, the screen may not display normally sometimes, depending on the particular combination of display and video card. Try changing the settings of the environment in which the video card, for example, is connected.
- The monitor cable connector is a Mini D-SUB 15P type. Make sure you connect it in the correct orientation and use the fixing screws to hold it in place. It may cause trouble if it is not connected properly.
- Cascaded connections must be setup exclusively with our KVM switches only. You can not make these connections with switches produced by other manufacturers.
- A maximum of two levels of cascaded connections are allowed (including the master). Attempting to cascade three or more levels will not work.

2.2 Disposal

⚠ **CAUTION**	This device consists of metal, plastic, electronic parts and so on. Some electronic components, such as LCD monitor, include lead. When it is disposed of, follow exactly the relevant government regulations, instructions and so on.

2.3 Moving Console Drawer

⚠CAUTION When moving the Console Drawer to a different location, use the box in which it was purchased or a box that protects the product from bumping and shaking. Do not unpack the Console Drawer until the move has been completed.

2.4 Safety Precautions and Limited Warranty Information:

Fujitsu's Products are not designed for use in medical or life support appliances, devices, or systems where malfunction of a Product can reasonably be expected to result in a personal injury. The Product is designed, developed and manufactured as contemplated for general use, including, general office use, personal use, household use, and ordinary industrial use, but is not for use for high risks or dangers that could reasonably be expected to result in personal injury, or other loss including without limitation, nuclear application, aircraft flight control, air traffic control, mass transport control, medical life support system, or missile launch control in weapon system ("High Safety Required Use"). You should not use this Product without securing sufficient safety required for such High Safety Required Use. Purchaser and its customers using or selling Products for use in such applications do so at their own risk and agree to fully indemnify Fujitsu for any damages resulting in such improper use or sale.

Fujitsu Component Limited or its affiliates ("Fujitsu") warrants all Product against defects in materials and workmanship for a limited period not to exceed one (1) year from the date of delivery to Fujitsu authorized distributor or authorized system integrator ("Authorized Company"). Check with Fujitsu for such Authorized Company. Fujitsu's liability under this warranty is limited, at Fujitsu's sole discretion, to repairing, or replacing any component with new or like new components or parts, or replacing with a refurbished or alternative product, or issuing credit for the purchase price, if paid, for such Product that was defective at the time delivered to Purchaser, provided that Fujitsu will not be liable under this warranty unless: (i) Fujitsu is promptly notified in writing upon the discovery of defects by Purchaser; (ii) the defective unit is returned to Authorized Company, transportation charges prepaid by Purchaser; (iii) the defective unit is received for adjustment no later than one year following the date on which such Products were delivered by Fujitsu to Authorized Company; and (iv) Fujitsu's examination of such units shall disclose, to its satisfaction, that such defects have not been caused by misuse, neglect, improper installation, repair, alteration, accident, improper storage or other action or inaction beyond reasonable practice for such Product. This warranty shall be administered and returned to the party from whom Purchaser purchased Product which is an Authorized Company.

THE WARRANTY SET FORTH IN THIS SECTION IS IN LIEU OF, AND EXCLUDES, AND EACH PARTY HEREBY WAIVES, ANY OTHER REPRESENTATIONS, GUARANTEES AND WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL FUJITSU BE LIABLE TO PURCHASER FOR LOSS OF PROFITS, LOSS OF USE, COST OF SUBSTITUTE GOODS, OR CONSEQUENTIAL OR INCIDENTAL DAMAGES OF ANY KIND BASED UPON A CLAIM FOR BREACH OF WARRANTY OR OTHERWISE. FUJITSU'S WARRANTIES SHALL NOT BE ENLARGED, DIMINISHED, OR AFFECTED BY, AND NO OBLIGATION OR LIABILITY SHALL ARISE OR GROW OUT OF, SELLER'S RENDERING OF TECHNICAL ADVICE OR SERVICE IN CONNECTION WITH BUYER'S ORDER OR THE PRODUCTS FURNISHED HEREUNDER.

3. Installation

⚠CAUTION

Please note the safety information in [Important Notices].
Observe the specified environmental conditions when using the Console Drawer (See [Technical Specifications] for more information). Avoid dust, humidity and extreme temperatures. Installation requires at least 2 two people. Be careful not to pinch your fingers or hands between the guide rails and the Console Drawer.

3.1 Installing the Guide Rails (when using a tapped guide rail)

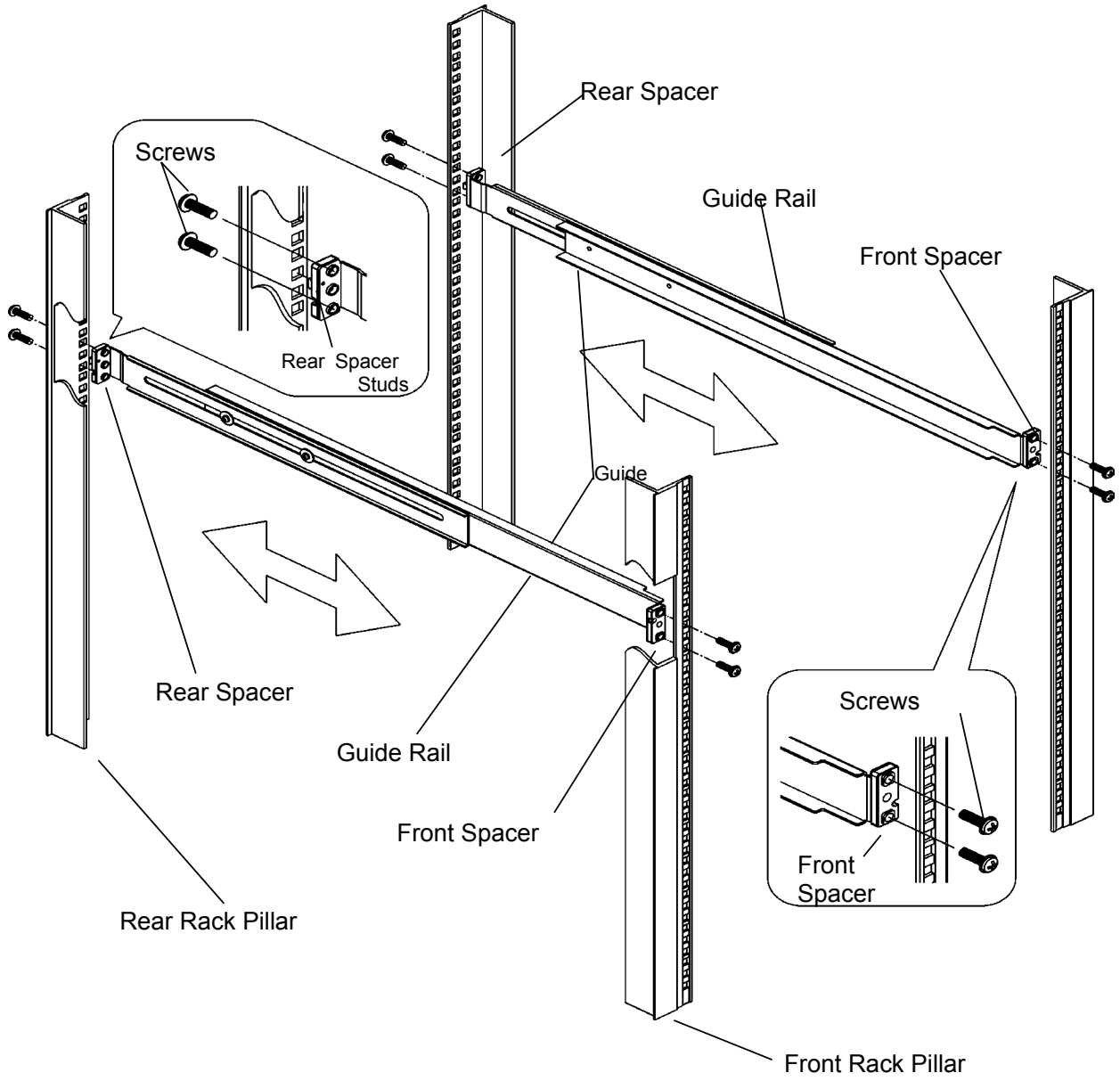
* These guide rails are optional.

Point

Install the guide rails with the guides toward the front so that the Console Drawer can be mounted on them.
When using tapped guide rails, install them on the inside of the rack supports. A screw holder may be required depending on the guide rail specifications.
See the "Installing the Guide Rails" drawing in following page.

3.2 Installation Procedure

1. Insert the rear spacer studs of the guide rails into the holes in the rear rack pillars. Fasten each guide rail with two screws inserted from the outside of the pillar, one into each of the top and bottom holes of the rear spacer.
2. Extend the guide rails to reach the inside of the front rack pillar.
   Fasten each guide rail in place with two screws, one into each of the top and bottom holes of the front spacer. (Attach the guide rails inside the front/rear rack pillar so that the guides face inwards.)
3. Install the left and right guide rails at the same height.



"Installing The Guide Rails"

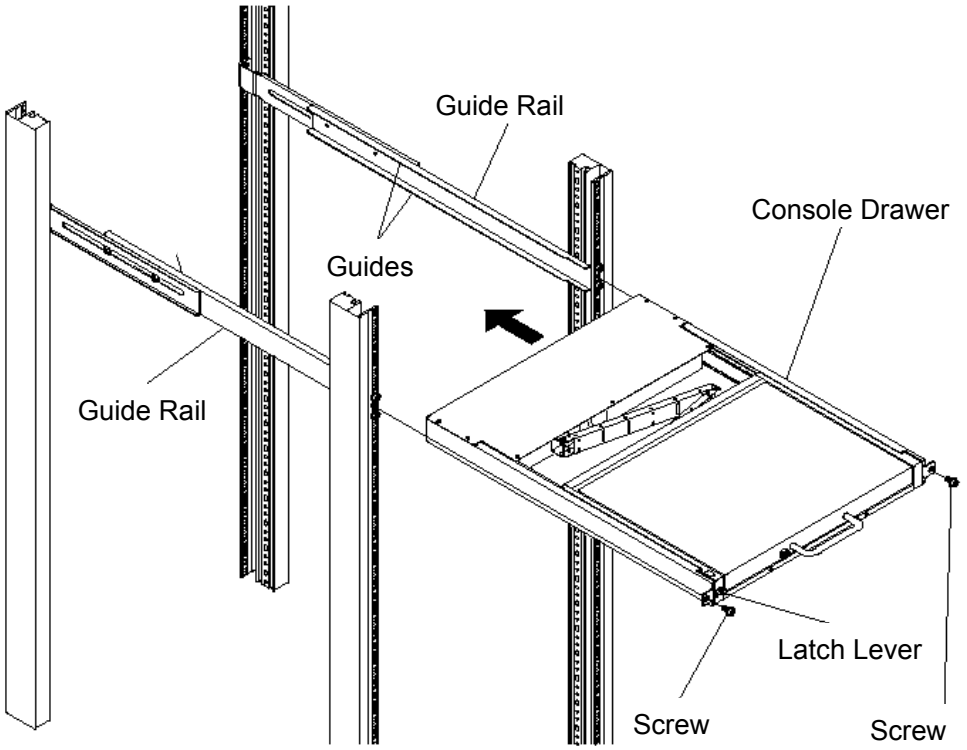
3.3 Installing Console Drawer

⚠ CAUTION

Be careful that the latch lever (see detailed mechanism shown in section #6-1-2) does not come loose. If the latch lever comes loose the Console Drawer may slip. This Console Drawer to be held with two people at least. Do not connect the power cable at this point.

1. After installing the guide rails, slide the Console Drawer into the front end of the guide rails.

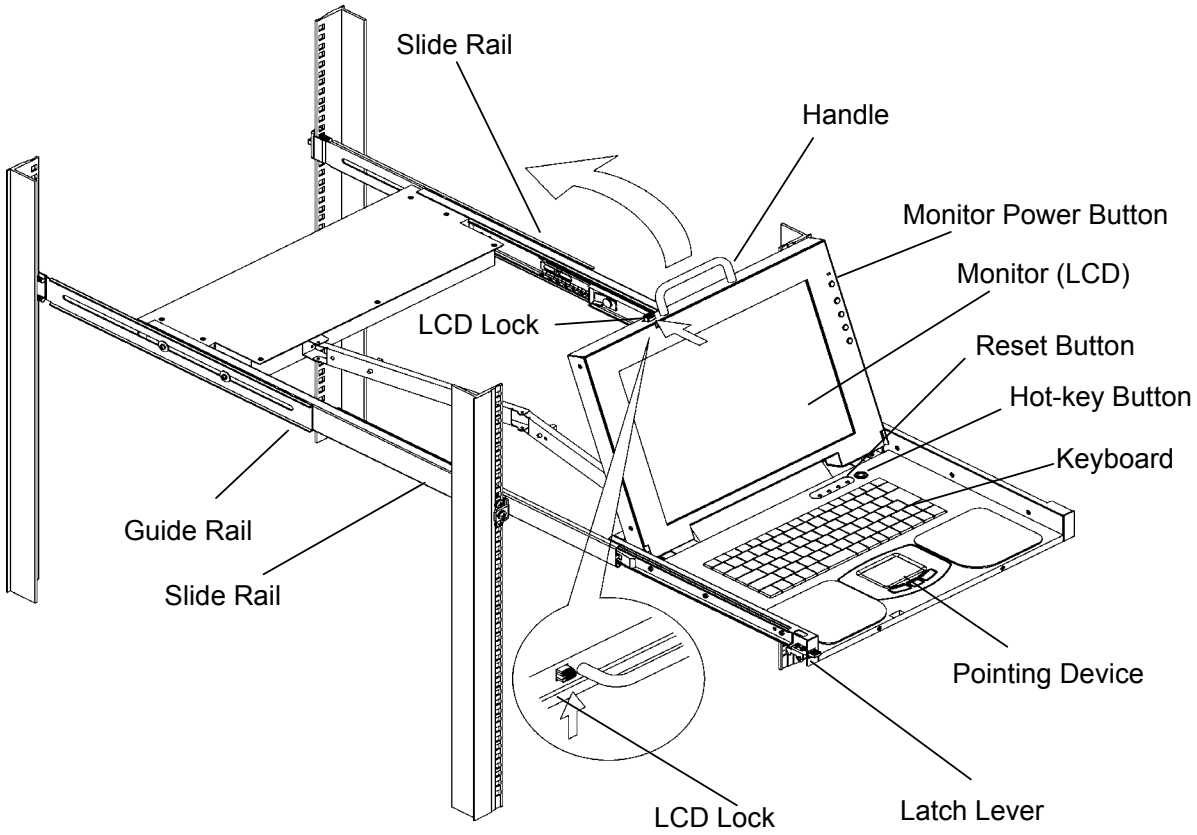
2. Push the Console Drawer in until it stops, then fasten each screw-hole of the front of Console Drawer by 2 screws.



"Installing the Console Drawer"

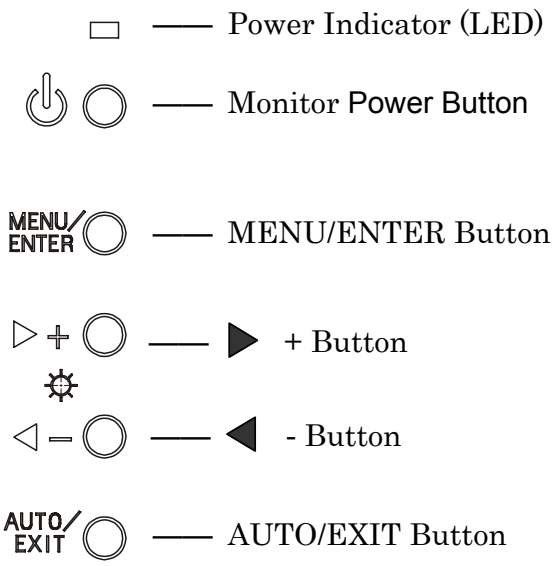
4. Names and Functions of Parts

4.1 Overview



4.2 Console switches

There are one LED and five Buttons at the upper right area of Monitor surface.



Power Indicator: It glows green while the power of the monitor is turned on, and glows orange while the monitor is in energy-saving mode. It is off when the backlight power is off.

Monitor Power Button: Press this button to turn on the monitor power. When pressing this button while power is turned on, the monitor is turned off.

MENU/ENTER Button: Press this button to indicate menu, select or enter the value and so on.

▶ + Button: Press this to choose right-side item or increase value.

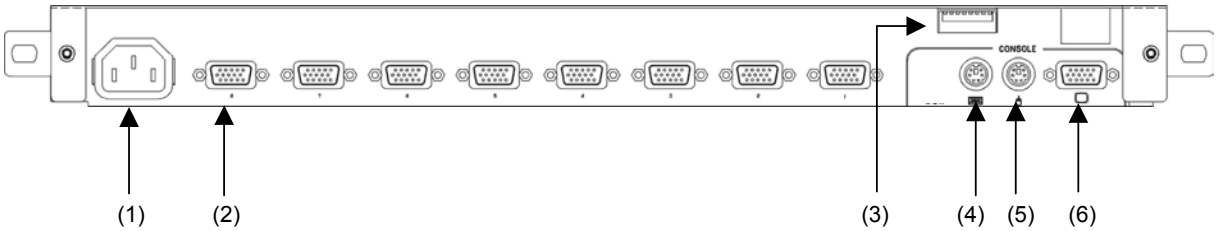
◀ - Button: Press this to choose left-side item or decrease value.

AUTO/EXIT Button: Press this to close the menu, cancel the adjustment items or settings, or set to automatic setting.

Hot-key: Push this button to display the OSD for switching servers.

4.3 Rear Panel

8-Port KVM Switch



8-port KVM Switch Rear Panel

(1) Power cable connector
Connect power cable to power socket.

(2) Connectors for servers [1 through 8 or 16]
Connect each port (1 through 8 or 16) on this device to the relevant host's keyboard, mouse and monitor connectors with the special cable.

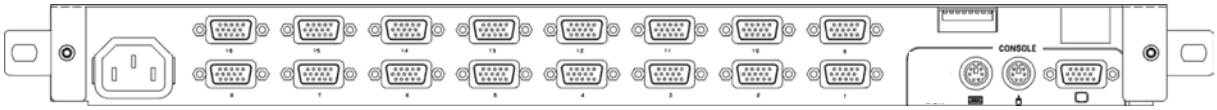
(3) DIP switches
Use for a variety of settings. Numbered from left side while facing the switches starting from 1, 2…8 or 16; up is on and down is off.

(4) Keyboard connector
Connect a PS/2 keyboard connector (purple).

(5) Mouse connector
Connect a PS/2 mouse connector (green).

(6) Monitor connector
Connect a monitor.

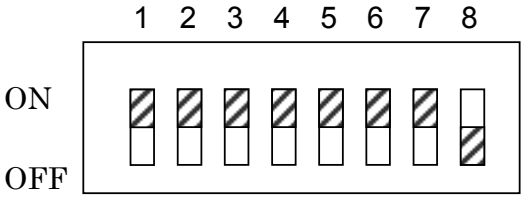
16-Port KVM Switch



16-port KVM Switch Rear Panel

4.4 DIP Switch Settings

The factory default settings are as follows:



(*Note: the ▨ indicates the switch position)

DIP Switch Functions

SW No.	Function	ON state / OFF state
1	Hot Key Mode: <Ctrl>+<Alt>+<Shift> and Hot-Key SW	ON: enabled / OFF: disabled
2	Hot Key Mode: Double <Ctrl>	ON: enabled / OFF: disabled
3	Hot Key Mode: Double <Scroll Lock>	ON: enabled / OFF: disabled
4	Country Setting bit 1	(see following table)
5	Country Setting bit 2	(see following table)
6	Country Setting bit 3	(see following table)
7	Country Setting bit 4	(see following table)
8	Power Mode Setting	ON: the switch device is always ON. OFF: the switch device turns ON if any connected host is turned ON.

The country code (language) settings are as follows: For Sun Microsystems platform only

Country Setting	SW4	SW5	SW6	SW7
JPN	ON	ON	ON	ON
USA	ON	ON	ON	OFF
GBR	ON	ON	OFF	ON
GER	ON	ON	OFF	OFF
FRA	ON	OFF	ON	ON
ESP	ON	OFF	ON	OFF
SWE	ON	OFF	OFF	ON
POR	ON	OFF	OFF	OFF
TPE	OFF	ON	ON	ON
KOR	OFF	ON	ON	OFF
ITA	OFF	ON	OFF	ON
UNIX	OFF	ON	OFF	OFF
NOR	OFF	OFF	ON	ON
BEL	OFF	OFF	ON	OFF
DEN	OFF	OFF	OFF	ON

5. Connecting and Removing Cables

CAUTION

Read the Console Drawer manual before connecting the cables. Do not connect or remove the cables during a thunderstorm. When unplugging cables hold them by the plug, not the cable. Connect and remove cables in the following order.

5.1 Connecting Cables

Following explanation is based on 8 port KVM built-in drawer and separate purchase of our 8 port KVM. In case of 16 port KVM built-in drawer usage and different combination of 4, 8, 16 port KVM purchase, will be treated by reference of this example connections.

1. Getting started

Then confirm that the power cable for each server is plugged into an electric outlet and that the power is off **(Confirm connection (1))**.

2. Connect the servers

2.1 When using one level KVM Switch (using only one switch device)
It is possible to hook up a maximum of 8 servers.

1. Connect the first server's keyboard, mouse connector and CRT connector with the unique optional cable **(connect (2)),** next connect the switching device's Mini D-Sub 15 pin (female) to the special connector (black) **(connect (3)). Use the fixing screws to hold the Mini D-SUB15Pin in place.**
2. Connect hosts 2 through 8 in the same manner.

3. Connect the console

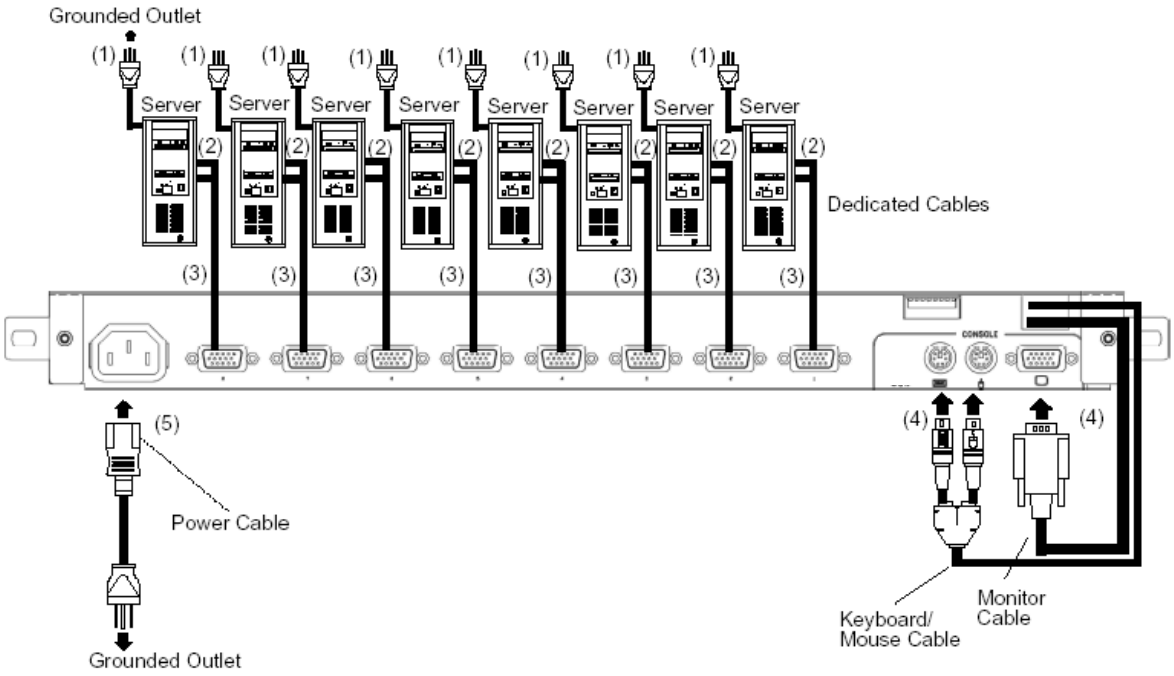
3.1 Connect the monitor cable and keyboard/mouse cable to the keyboard and mouse connectors (connect (4)).

4. Connect the power cable

4.1 Connect the power cable to the Console Drawer. Next, connect the power cable to an earthed power supply outlet.

Point

When connecting the connector (Mini D-SUB 15Pin) for the monitor, use the fixing screws to securely connect the connector to the Console Drawer and server. Otherwise, images may be distorted.



5. In the case of a cascaded connection (when KVM Switch is connected in a two-level connection)

Enable to connect max 64pcs of servers by cascade connection of Console Drawer when using 1pcs of 8 port KVM switch.

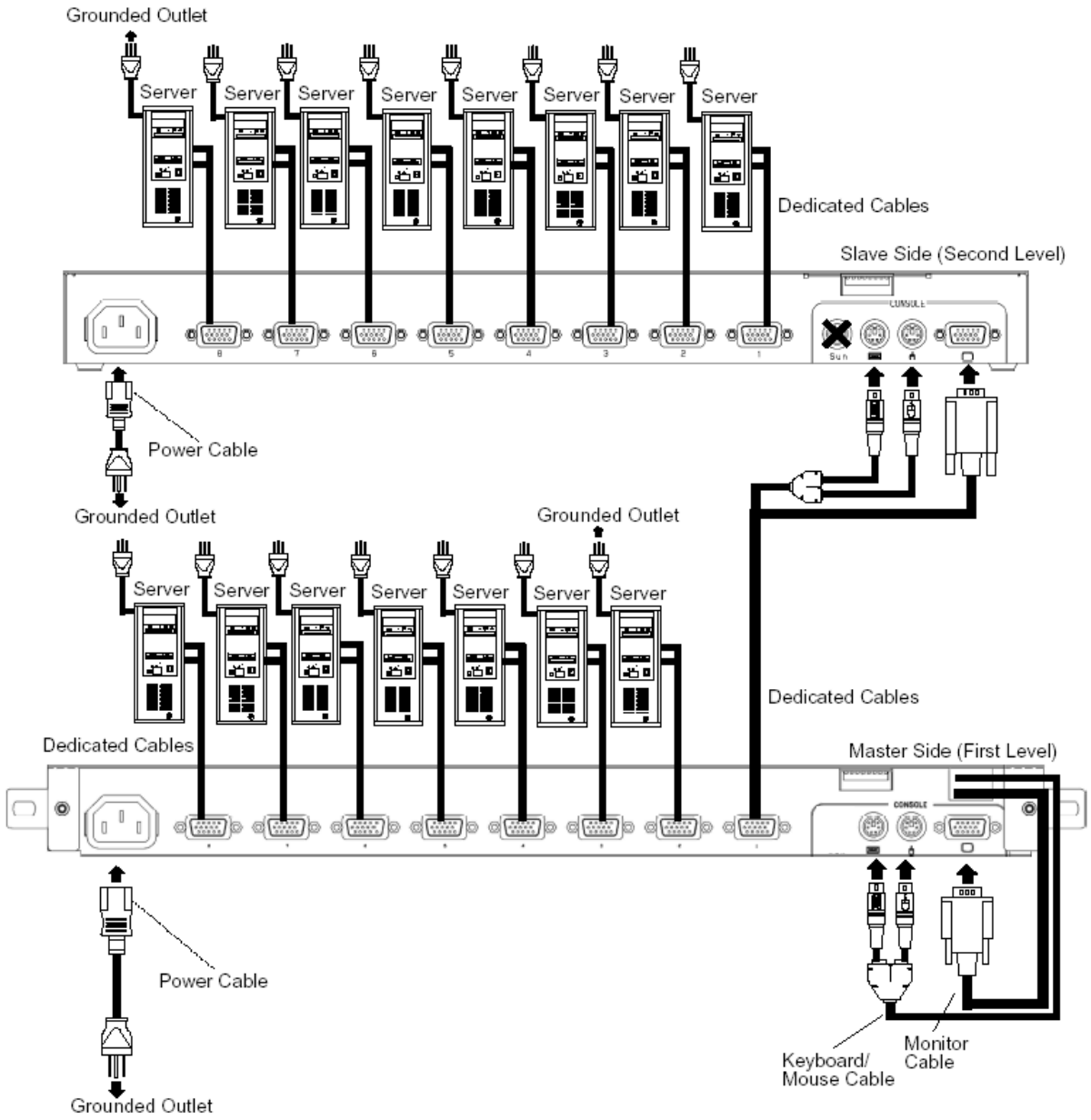
1. Connect the master switch device's ports one through eight to the second level of switch devices (called slaves), in the same way as for the [first level].
2. Next, use the unique optional cables to attach the [keyboard/mouse] and [DISP] connector of the first level switching device (called master) to the [Keyboard], [Mouse], and [Console] connector on the console ports of the second level slave switch devices. Cascading between 1st level of KVM built-in drawer and 2nd level of KVM shall be connected by 1.8 m PC type of unique optional cable.

   Note: Please do not use the Sun I/O CN port in console ports area inside the KVM side (2nd level) at the time.
3. To increase the number of slaves, connect them in the same way as described in steps 1 and 2 above. Do not connect slaves beyond the second level. Third level connection does not work.

Point

When the Console Drawer is used in a cascaded connection, the connector for the slave Console and for the master-side server can be connected using only the 1.8 m PS/2 unique optional cable. Operation by a cable other than the unique optional cable for the PS/2 cable will not be possible.

Note: Do not connect the cables to the connectors marked with an **X**.



5.2 Removing Cables

Unplug the power cords, from the power outlets, of all the equipment that are affected, then remove each cable.

6. Operation

CAUTION

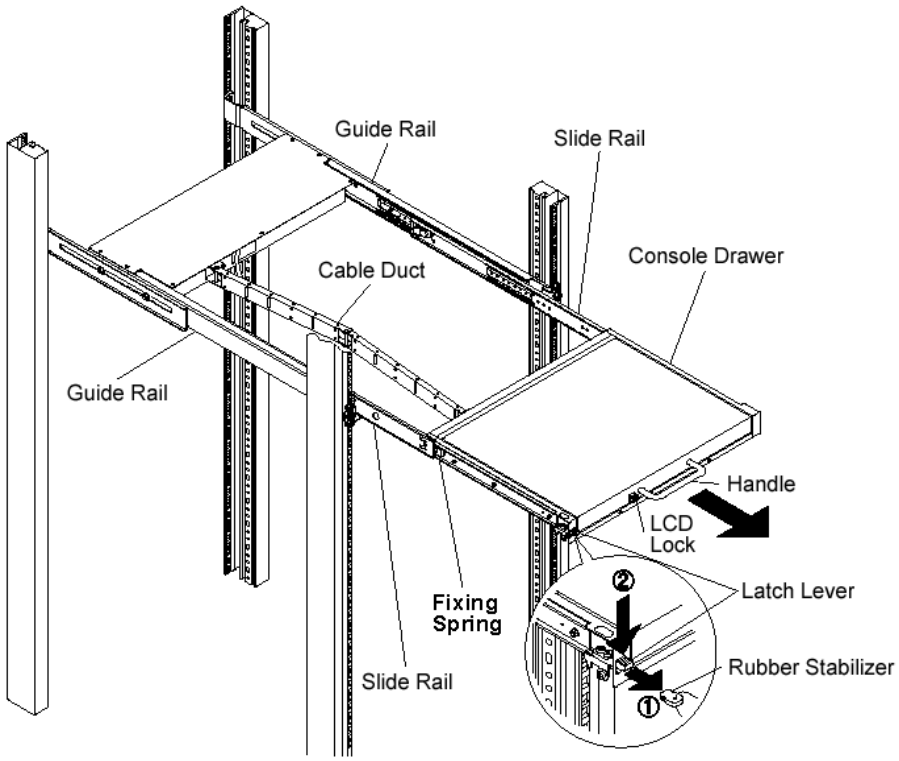
Pull the Console Drawer out slowly until the slide rails lock.
If they do not lock, the weight of the Console Drawer may cause it to move. Be careful not to pinch your hand when pulling or pushing the slide module, and opening and closing the LCD.

6.1 Operating the Console Drawer

1. If the rubber stabilizer has not been removed yet, remove it now.

2. Push down on the latch lever on the front left side of the Console Drawer. Pull out the Console Drawer until it clicks.

Point Before pulling out the Console Drawer, make sure that the two screws on the front of it are tightly fixed to the rack.



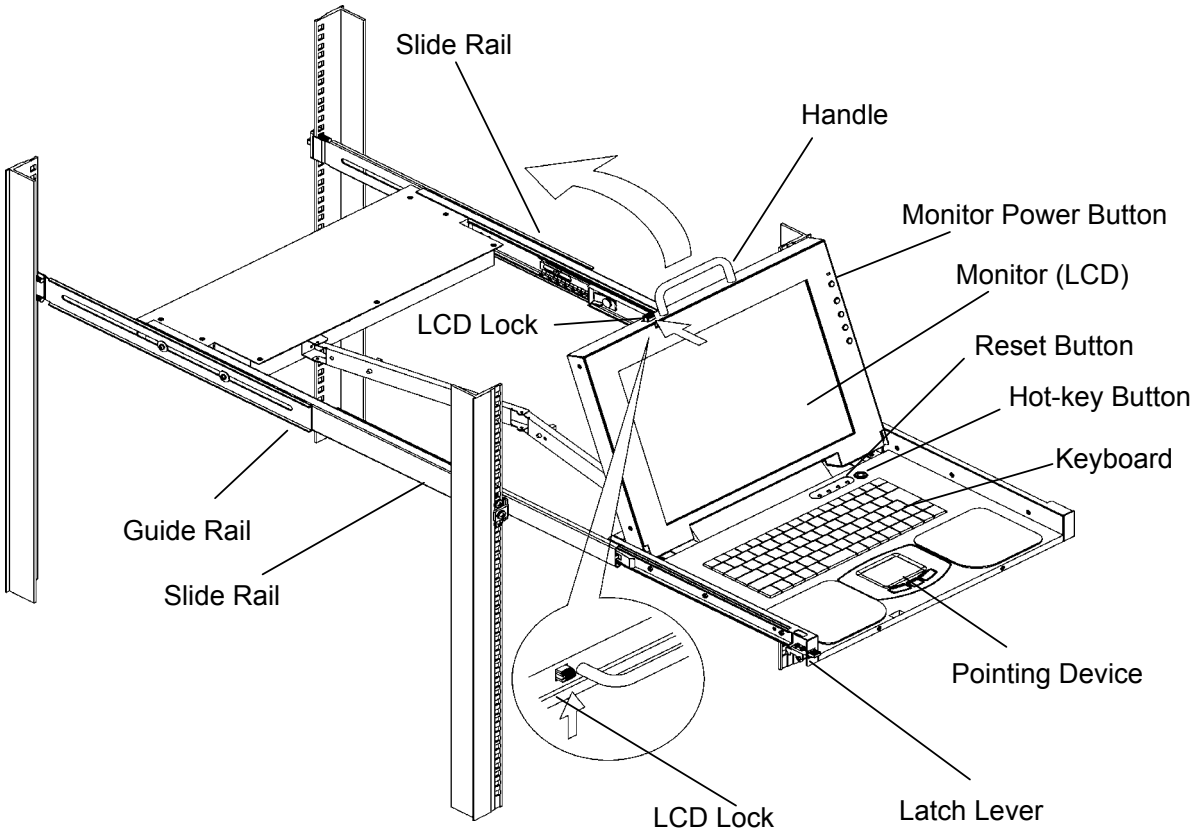
"Pulling out the Slide Module" Diagram

3. Push and raise the LCD lock on the left side of the handle, and then grasp the handle and open the top of the monitor.

4. Turn on the power by pushing the POWER button.

5. Turn on the power of each of the connected servers.

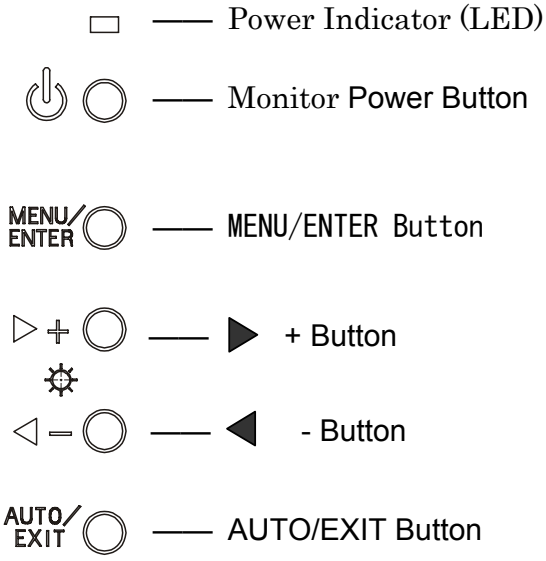
Point Open the monitor completely.



"Opening the LCD"

6.2 Monitor Adjustment

There are one LED and five Buttons at the upper right area of Monitor surface.



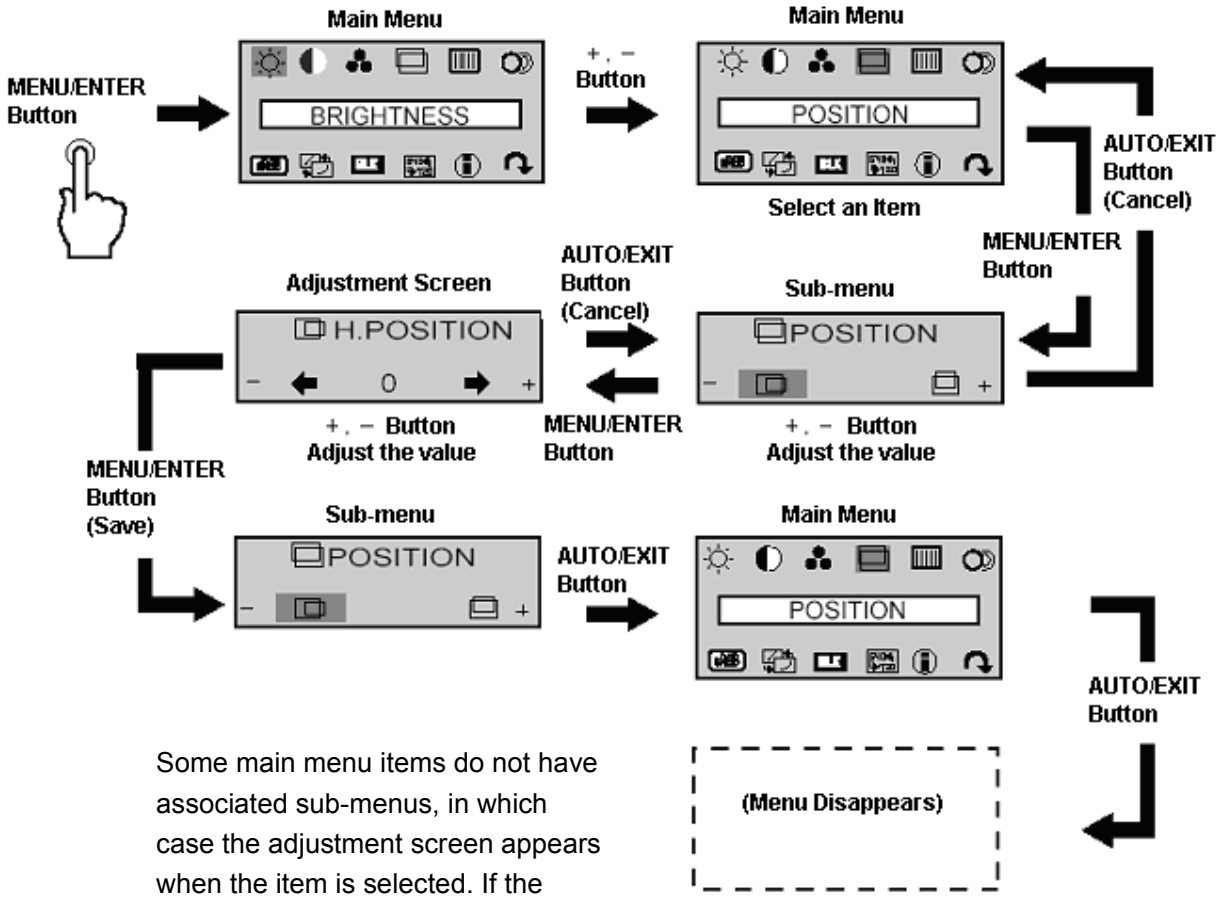
Power Indicator:	It glows green while the power of the monitor is turned on, and glows orange while the monitor is in energy-saving mode. It is off when the backlight power is off.
Monitor Power Button:	Press this button to turn on the monitor power. When pressing this button while power is turned on, the monitor is turned off.
MENU/ENTER Button:	Press this button to indicate menu, select or enter the value and so on.
▶ + Button:	Press this to choose right-side item or increase value.
◀ - Button:	Press this to choose left-side item or decrease value.
AUTO/EXIT Button:	Press this to close the menu, cancel the adjustment items or settings, or set to automatic setting.

Point

It is possible to directly adjust screen brightness by pressing the ▶ + button or ◀ - button when the menu is not displayed.
It is possible to perform automatic adjustment (position and focus) by pressing the AUTO/EXIT button when the menu is not displayed.

6.3 Basic Adjustment Procedure

The basic adjustment procedure is as follows:



Some main menu items do not have associated sub-menus, in which case the adjustment screen appears when the item is selected. If the AUTO/EXIT button is pressed at this phase, the screen returns to the main menu without saving the setting values and any adjustment made to settings will not be saved. The only exception is adjustment of the brightness; any adjustment is always stored by depressing ▶ + - ◀ buttons directly, without entering the menu.

Main Menu Items

Symbol	Descriptions	Features
	BRIGHTNESS	It adjusts the screen brightness.
	CONTRAST	It adjusts the screen contrast.
	COLOR	It adjusts the screen color. Fixed values or individual color tones (red, green, blue) can be set.
	POSITION	It adjusts the display position (horizontal and vertical).
	CLOCK	It adjusts vertical striping (noise).
	FOCUS	It adjusts horizontal noise and sharpens up blurred on-screen lettering.
	sRGB	It sets the sRGB functions on/off.
	BLACK LEVEL	It adjusts black color offset level.
	GRADATION	It adjusts the gradation of the color.
	TEXT MODE	It sets the DOS screen resolution. Be sure to set 720 x 400 when using DOS.
	INFORMATION	It shows the current major setting value, such as the screen resolution, vertical frequency, etc. (not all settings are shown)
	RECALL	Restore factory default values. ● SETTINGS Reset to factory default values. ● GEOMETRY Reset the default value for the screen resolution, POSITION, CLOCK, and FOCUS. ● COLOR Reset the default value for the BRIGHTNESS, CONTRAST, BLACK LEVEL, and COLOR .

6.4 Resolutions and Refresh Rates, and LCD supporting video signal

Resolution and refresh rate:

Resolution	Horizontal frequency (kHz)	Vertical frequency (Hz)	Mode
640 x 400	31.5	70	VGA 400 LINE
640 x 480	31.5	60	VGA Standard
	37.5	75	VESA
	37.9	72	
720 x 400	31.5	70	
800 x 600	35.2	56	
	37.9	60	
	46.9	75	
	48.1	72	
1024 x 768	48.4	60	
	56.5	70	
	60.0	75	

Video Signal Supported by LCD monitor part:

The monitor supports the analog RGB separate sync video signal.
The monitor does not display in case of connection of the different video signal usage.

Caution: LCD display

Following cases are not considered as a failure mode, and the device can be used normally:

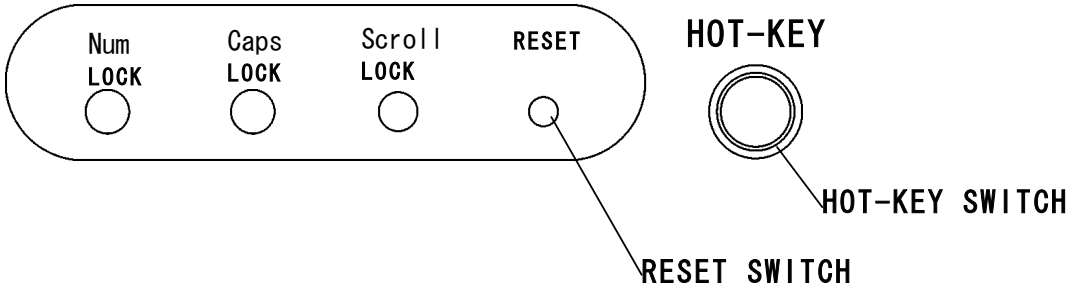
- During or soon after power-on, O/S boot-up, power-off , or O/S shut-down, the display position may shift, blink, or otherwise be disturbed.
- Any native resolution can be displayed in 1024 x 768, full screen mode, by scaling
  function. In this case, letters may be blurred and the thickness of thin lines might be uneven. This is because the full-screen display is made by digital interpolation of the low-res output, not by physical magnification. This is not a display failure, and the device can be used normally.
- Although there might be some dots or pixels that are always-off (black) or always-on (red, green or blue), this is a natural characteristic of LCDs and is within specification (it is not a defect), and you can use the device normally.

6.5 Hot-Key SW Operations

To display the OSD menu for switching the server, press in and release this switch.

6.6 Keyboard Operation, LED Indicators and the Reset SW

Num Lock LED: Num Lock enabled (LED ON)/disabled (LED OFF)
Caps Lock LED: Caps Lock enabled (LED ON)/disabled (LED OFF)
Scroll Lock LED: Scroll Lock enabled (LED ON)/disabled (LED OFF)
Reset Button: Normally, this is not used. Use only if the server cannot be selected or keyboard/mouse operations are not possible. Lightly press this switch in using the tip of a fine-tipped metallic object such a pin.
Resets keyboard and pointing device.
Also resets the KVM switch part built-in drawer. However, it will not effect the reset for any secondary (slave) KVM switches.



Full keyboard operation is possible by working with the Fn key.

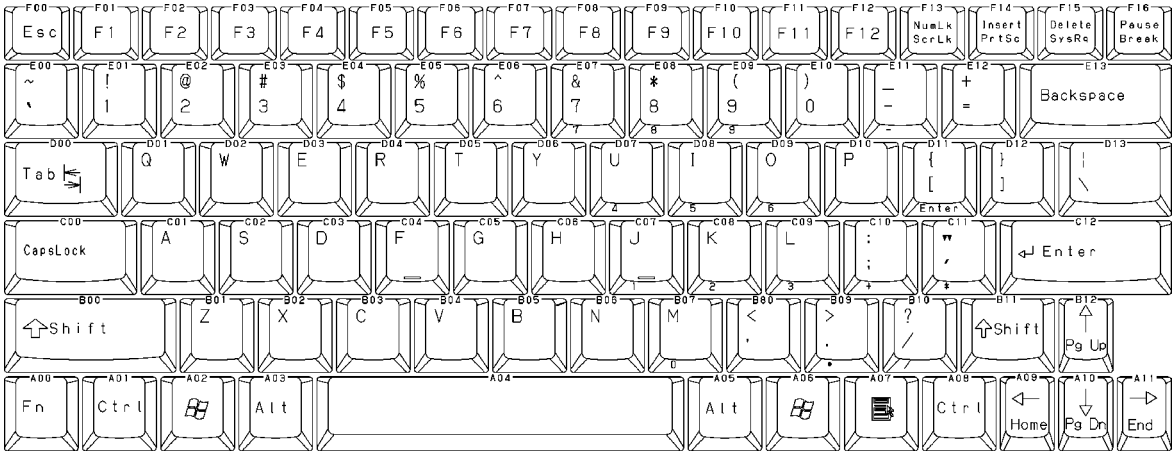


Fig US Keyboard

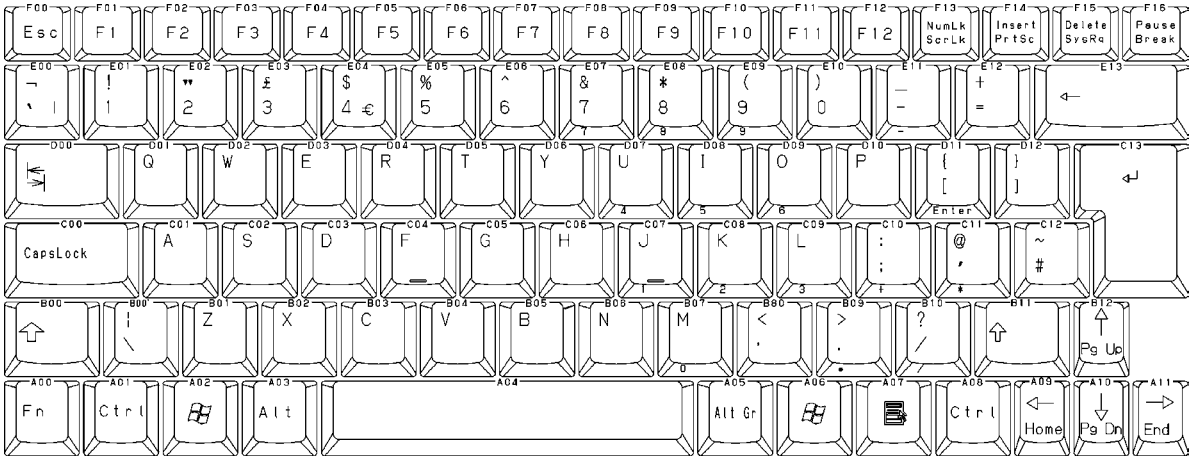


Fig EU layout (ex: UK Keyboard)

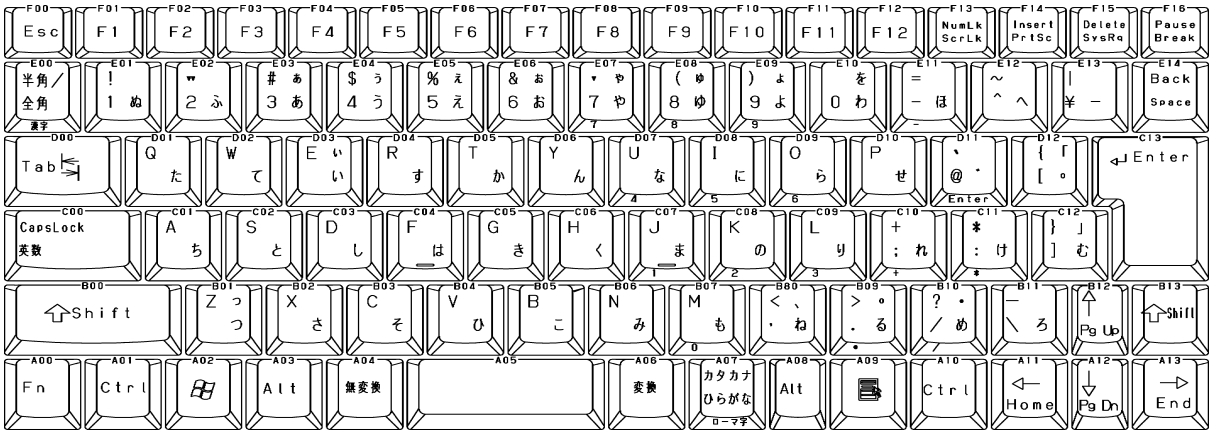


Fig Japanese Keyboard

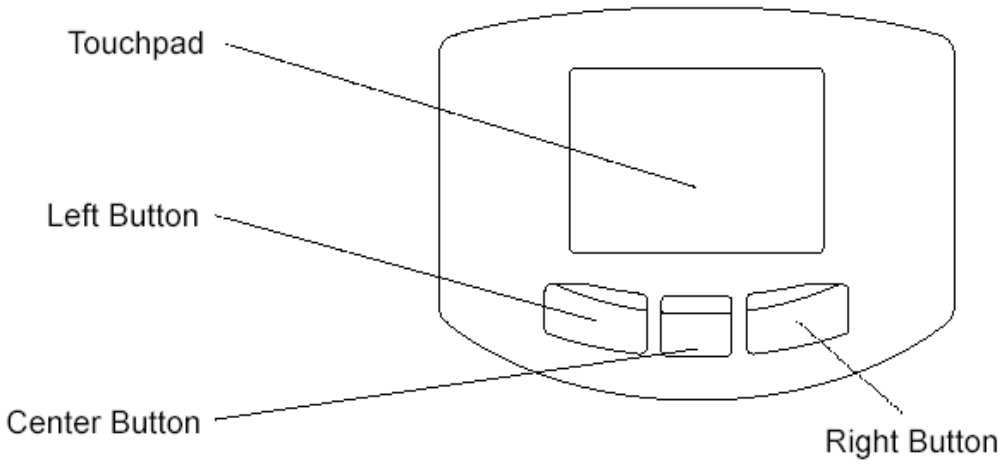
Point

Example of usage:
For function of <Scr Lk> key ,press <Fn>+<Num Lk>/<Scr LK>keys.
For function of <Pg Up> key ,press <Fn>+< ↑ >/<Pg Up> keys.

6.7 Pointing Device Operation

Lightly touch or tap the touchpad surface to operate the pointing device as below:

Moving the pointer: Lightly slide a finger over the touchpad surface in the direction you want the cursor to move.
Single click: Lightly tap the touchpad surface once, or press the left button once.
Double click: Lightly tap the touchpad surface twice, or press the left button twice.
Drag: Lightly tap the operation surface twice and without lifting finger, then lightly drag finger across the surface to the desired location.



CAUTION

1.The pointing device is designed to be operated with one finger, and may not respond correctly if you try to operate it:
   1) while wearing gloves;
   2) with a pen, ballpoint pen or pencil etc;
   3) with two or more fingers;
   4) Operating while something is placed on the operation surface.
2.Normal operation may become impossible if the operation surface gets wet such as when there is high humidity or the Operator's hands are damp or sweaty. Thoroughly dry or wipe the operation surface before use.
3. Do not operate with pointed metal objects such as pens as it may damage the pointing device.

6.8 Switching Servers

A server can be selected from the OSD menu (Hot Key Mode). When a currently selected server is turned OFF, that state will be maintained. In this case, switch the desired server using the Hot Key Mode.

Keyboard/mouse operations are enabled only on the server currently connected to the selected port. Operation data is not sent to other servers.
Note, however, that commands from servers are processed at all times, even if the server is not selected. For this reason, modes (Key Code mode, LED state, type-setting, Mouse Output Mode, etc.) are reflected when switched.

6.9 Selecting a Server when the Power is ON

When the power is turned ON while all servers are OFF, the server that is turned ON first is automatically selected.
When servers are turned ON at the same time, Servers are selected and connected in numerical sequence (1, 2, 3 …).

6.10 Selecting the Hot Key Mode

There are two Hot Key Modes: A and B. There are four ways of displaying the Hot Key Mode as follows:
Hot Key Mode A

- Press and release the Hot-Key switch.
- Hold down the <Ctrl>, <Alt>, <Shift> keys at the same time and release.
- Press Scroll Lock twice (Press the Scroll Lock key quickly in succession)

Hot Key Mode B

- Press Ctrl twice (Press the Ctrl key quickly in succession)

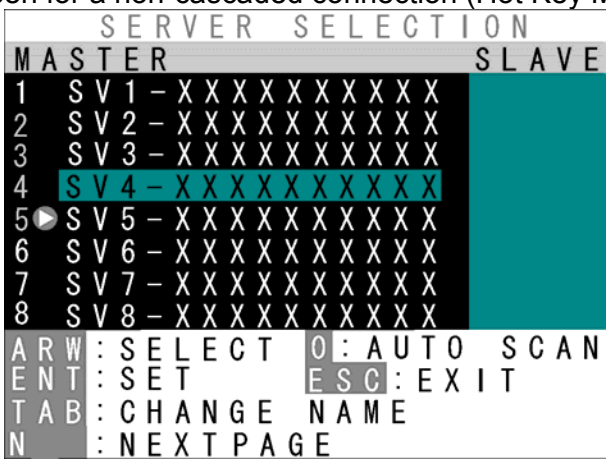
* Enabled/disabled can be set using the DIP switch settings.

When the Hot Key Mode is activated, the OSD (On Screen Display) selection screen is shown on the monitor.
The Scroll Lock LED on the keyboard blinks quickly.
Other LEDs (Num Lock LED, Caps Lock LED, Compose) go out.
Keyboard/mouse entry is not possible in the Hot Key Mode. The following shows the indications at each of the connections.

*When there is no image (H/V Sync) signal from the currently connected server (suspended state), the OSD menu can be displayed by the image (H/V Sync) signals from other ports. At this time, the OSD menu flashes at 5-second intervals.
When the image signal (H/V Sync) is input to the currently selected port, status returns to normal.

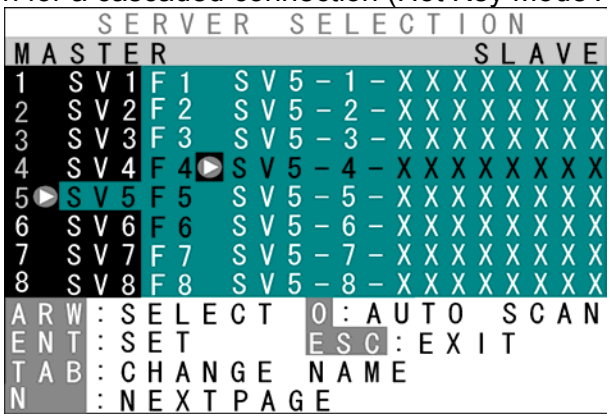
*H Sync: Horizontal sync signal
*V Sync: Vertical sync signal

1. OSD screen for a non-cascaded connection (Hot Key Mode A)



(Different from actual server name display)

2. OSD screen for a cascaded connection (Hot Key Mode A)

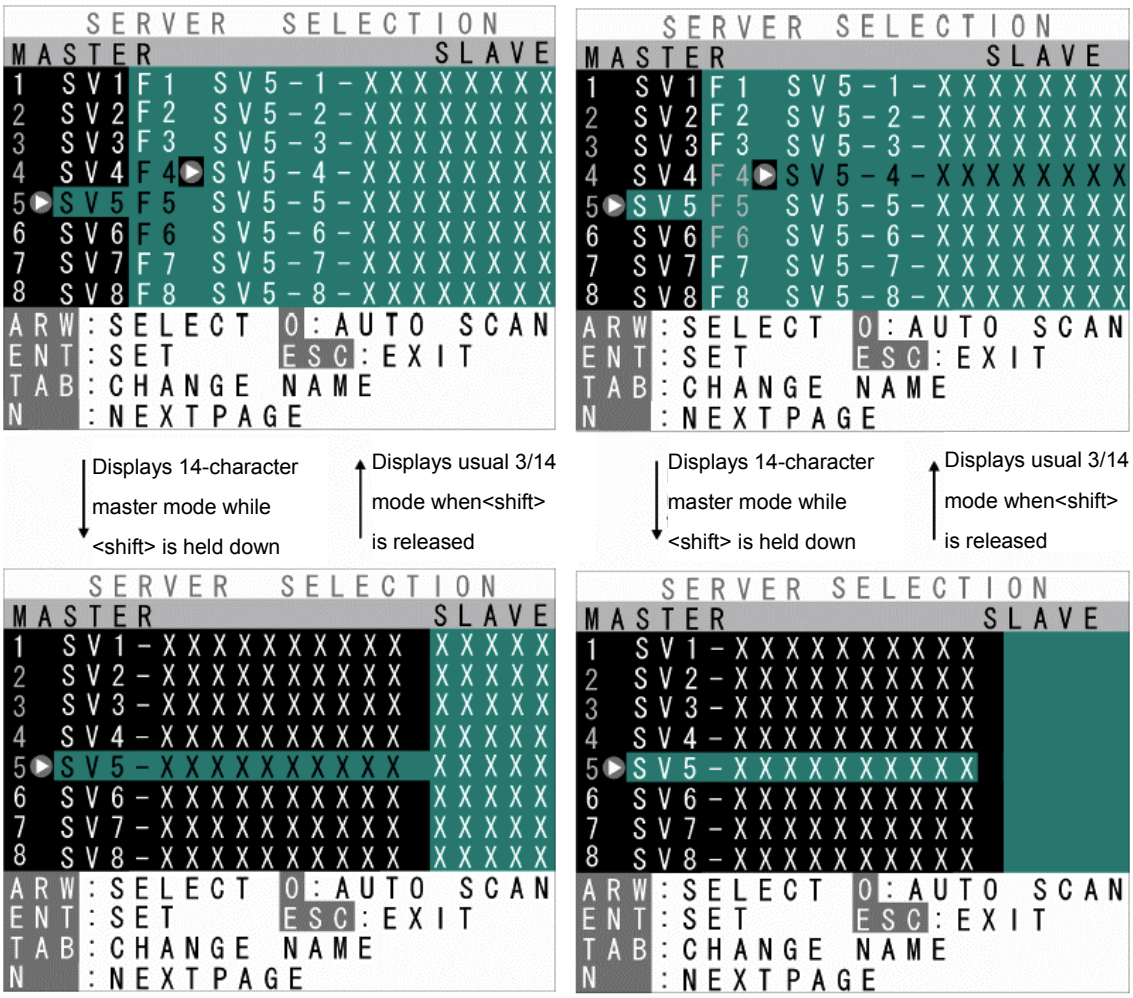


Example: OSD Screen with cascaded channel selected

[Screen Details]

1. Numbers 1 to 8 and function keys F1 to F8 (for a cascaded connection) indicate the server connection ports. Any numbers 1 to 8 displayed in green indicates that the currently connected server is turned ON.
2. The ▶ mark shows the currently selected server.
3. Purple text shows the hosts currently selectable with the cursor keys.
4. SV1-XXXXXXXXXX shows the name of the server currently connected to port 1.
5. The bottom of the screen shows simple explanations of key operations.
6. Cascaded connections are displayed on the slave in blue. (In the above example, channel 5 is in a cascaded connection.)
7. Depending on whether the selected channel has a cascaded slave device attached to it or not, the OSD master device display section changes as follows:
   - Non-cascaded channel: 14-character wide master device section / nothing in slave section. (The OSD screen is the same without cascade connection.)
   - Cascaded channel: 3-character wide master device section / 14-character wide slave section.

3. Changing the master/slave display when there is a cascaded connection
(Hot Key Mode A)



Cascade-connected master channel selected　　Slave channel selected

[Screen Details]

1. If a cascade-connected master channel or any slave channel is selected, while the <Shift> key is pressed the OSD screen switches from "3-character master/14-character slave" mode back to "14-character master/5-character slave" mode. The OSD reverts to usual 3/14 mode when the <Shift> key is released.

Hot Key Mode B

When the <Ctrl> key is pressed twice to enter Hot Key Mode B, a 1-line OSD menu is displayed at the top left of the screen.

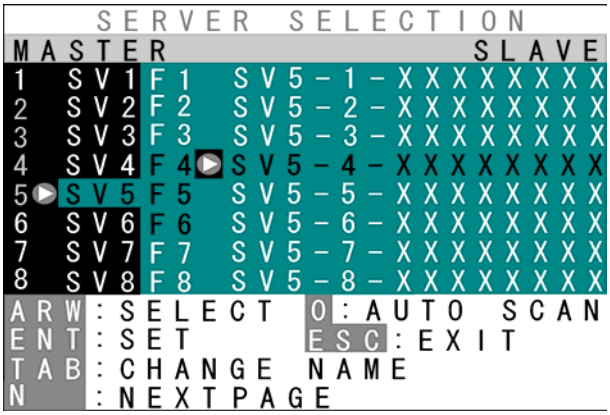
[Screen Details]

1. The server name is displayed at the top left of the OSD screen.
2. Before switching, the text background turns red.
3. After switching the text background turns blue, and the Hot Key Mode is exited after the switch is completed.
4. The OSD disappears about 3 seconds later.

How to switch the server from the OSD screen

Switching in Hot Key Mode A

The following OSD screen is displayed if you enter Hot Key Mode A after pressing the Hot-Key SW, after pressing the <Ctrl>+<Alt>+<Shift> keys at the same time, or after pressing the <Scroll Lock> key twice.


SERVER SELECTION
MASTER
SLAVE
1 SV 1 F 1 SV 5 - 1 - X X X X X X X
2 SV 2 F 2 SV 5 - 2 - X X X X X X X
3 SV 3 F 3 SV 5 - 3 - X X X X X X X
4 SV 4 F 4 SV 5 - 4 - X X X X X X X
5 SV 5 F 5 SV 5 - 5 - X X X X X X X
6 SV 6 F 6 SV 5 - 6 - X X X X X X X
7 SV 7 F 7 SV 5 - 7 - X X X X X X X
8 SV 8 F 8 SV 5 - 8 - X X X X X X X
ARW : SELECT 0 : AUTO SCAN
ENT : SET ESC : EXIT
TAB : CHANGE NAME
N : NEXT PAGE

Example of Hot Key Mode A Display for a Cascaded Connection

a. [Switching via Keyboard]

1. Use the <↑><↓> cursor keys to select the channel of the server No. on the left side of the OSD screen.
2. If a cascade-connected channel is selected, the state of the selected slave device is shown on the right side of the OSD.
3. If a cascade-connected channel is selected, pressing the <→> cursor key causes control to switch to the right (slave) side of the OSD, with the currently selected cascaded host shown in purple. Press the <←> cursor key to return control to the left (master) side of the OSD.
4. On the right side of the OSD, use the <↑> & <↓> cursor keys as before to select a channel.
5. Press the <Enter> key to actually effect the console switch to the selected server. The name of the server switched to is shown at the top-left of the screen for about 3 seconds after the switch is effected.

Point If ports 1 to 8 are selected when using a 16-port KVM Switch, ports 9 to 16 can be displayed using the <Page Down> key. Ports 1 to 8 can be shown by using the <Page Up> key.

b. [Direct Switching via Keyboard]

8-port KVM Switch

1. Use the number keys <1>~<8>. For a cascaded setup, first use the number keys <1>~<8> to select a master-side channel, then use the function keys <F1>~<F8> to select a slave-side port.

16-port KVM Switch

1. To select master port #1:	press <1> (& wait 1 sec), or press <1> then <Enter>
2. To select master port #14:	press <1><4> on the keyboard (press <4> within one second of pressing <1>)
3. To select master port #2:	press <2> on the keyboard

4. With a cascaded connection, select the port where the first cascaded connection on the master side was made.

To select slave port #1:	press <F1>, or press <F>+<1> (& wait 1 sec) or <Enter>
To select slave port #14:	press <F>+<1>+<4> (press <4> within one second after pressing <1>)
To select slave port #2:	press <F2> or <F>+<2>

Screens can be switched directly by these key operations.
After the screen is switched, the name of the server that you switched to is displayed at the top left of the screen, the OSD screen display disappears after about three seconds, and the Hot Key Mode is exited.

Point When selecting a port in a cascaded connection, first select the cascaded connection port on the master side. Then, select and switch to the port on the slave side.

Switching in Hot Key Mode B

The OSD menu is displayed at the top left of the screen when the <Ctrl> key is pressed twice and Hot Key Mode B is entered. (Press the <Ctrl> key quickly in succession.)
While the text background is displayed in red, the screen can be switched by pressing the desired server number key.

a. [Direct Switching via Keyboard]
8-port KVM Switch

1. Use the number keys <1> to <8>. For a cascaded connection, first use the number keys <1> to <8> to select a master-side port, then use the function keys <F1> to <F8> to select a slave-side port.

16-port KVM Switch

1. To select master port #1: press <1> on the keyboard (& wait 1 sec) or <1>+<Enter>
2. To select master port #14: press <1><4> on the keyboard (press <4> within one second of pressing <1>)
3. To select master port #2: press <2> on the keyboard
4. With a cascaded connection, select the cascade-connected port on the master side.

To select slave port #1: press <F1>, or press <F>+<1> (& wait 1 sec) or <Enter>
To select slave port #14: press <F>+<1>+<4> (press <4> within one second of pressing <1>)
To select slave port #2: press <F2> or <F>+<2>

Screens can be switched directly by these key operations.
Switching the screen also exits the Hot Key Mode.

No keyboard or mouse input is accepted while the text background is red.
To change the text background back to blue (exit Hot Key Mode), either press a number key, or press the <Esc> key, or the <Enter> key.
If the <0> key is pressed while the text background is red, Auto Scan Mode is entered.
Auto Scan Mode may be cancelled as follows:

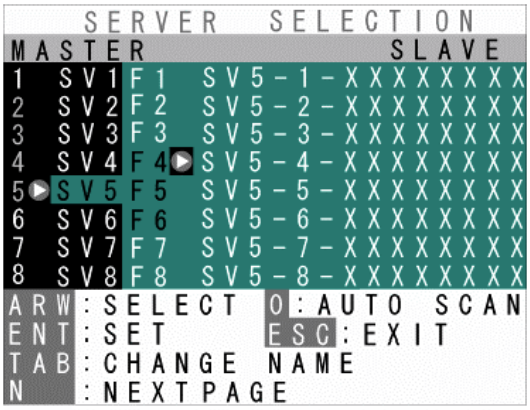
<Enter> key: Console switches to the currently displayed screen.
<Esc> key: Console reverts to the server active when Auto Scan Mode was started.

[Auto Scan Mode]

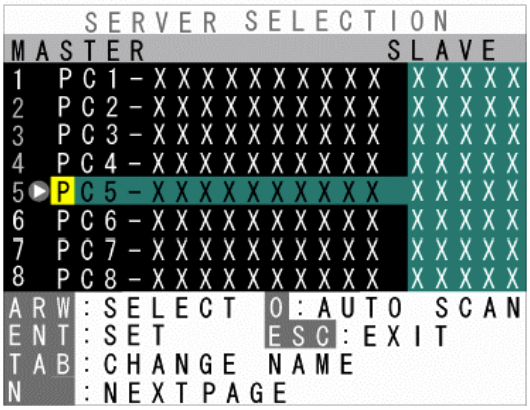
1. The screen is automatically switched at fixed cycles by pressing the <0> key on the keyboard in the Hot Key Mode.
2. The switching speed (Auto Scan Interval) may be adjusted by pressing the <↑> cursor key to make it faster (shorter) & the <↓> cursor key to make it slower (longer). Allowed Auto Scan Intervals are: 3, 5, 10 (default), 20, 40 and 60 seconds. The new Auto Scan Interval is shown on the OSD for 3 seconds.
3. Servers that are powered OFF are skipped.
   No keyboard or mouse input is accepted while the Auto Scan Mode is running.
4. To return to Hot Key Mode, the Auto Scan Mode must first be exited.
5. Auto Scan Mode may be exited as follows:

<Enter> key: Console switches to the currently displayed screen
<Esc> key: Console reverts to the server active when Auto Scan Mode was started

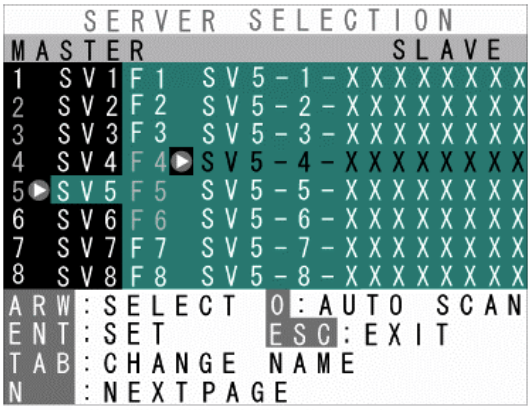
6.11 Setting/Changing Server Names



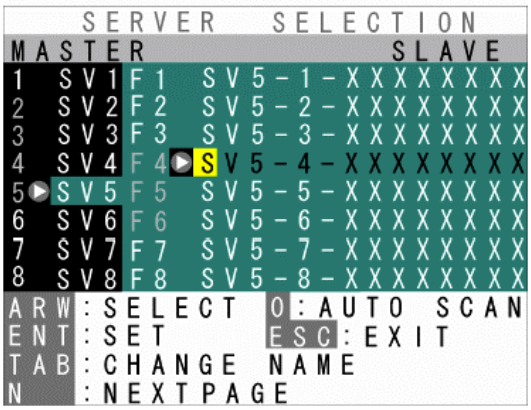
Press the <TAB> key for setting/changing the name



Changing a master-side name
(Single KVM setup has no blue area)



Press the <TAB> key for setting/changing the name



Changing a slave-side name

[Screen Details]

1. Select the server name to be set/changed using the cursor keys, exactly as if switching.
2. Press the <Tab> key. The selected name turns yellow, with a single black on yellow character.
3. Use the keyboard to enter the desired name, then press the <Enter> key to confirm it.
   Use the <Del> key to delete a single character, and the <BS> key to backspace.
   Use the <Esc> key to cancel name change (revert to original name).
4. A server name may be up to 14-characters long.
   The following characters (47 to choose from) can be used:
   ABCDEFGHIJKLMNOPQRSTUVWXYZ1234567890,./[]:+*-+ and <Space>

6.12 Constant Server Name Display Function

During usual server operation, holding the <Shift> key down and pressing the <Scroll Lock> key twice allows the server name for the currently selected channel to be shown at the top-left of the screen.
If the server name is being displayed, holding the <Shift> key down and pressing the <Scroll Lock> key twice causes the server name to disappear from the screen.

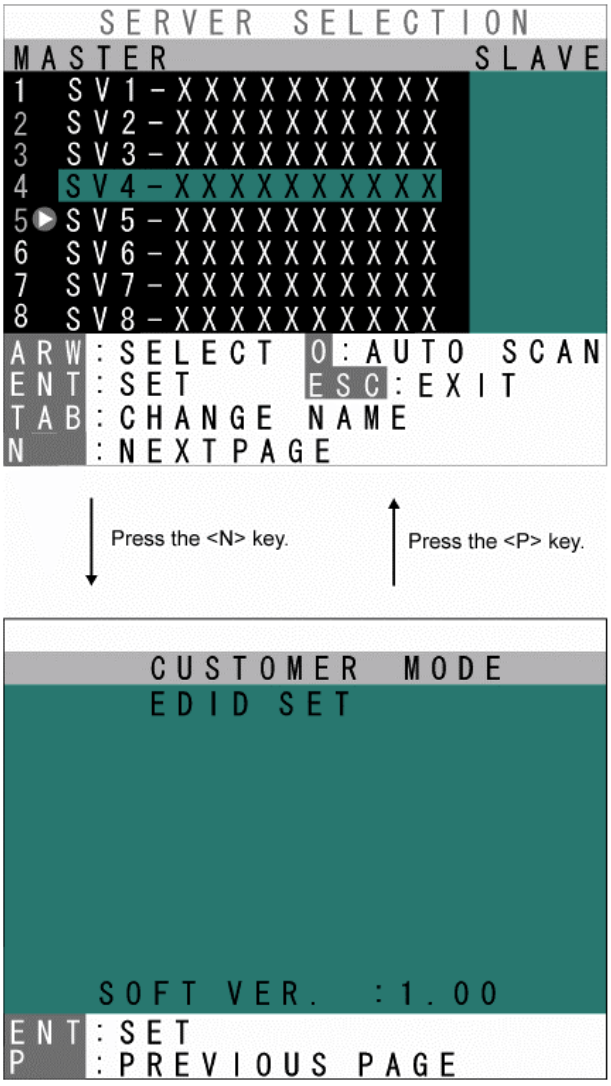
Server name is not indicated when shipping out. (Initial setting)
Server names are not displayed while in the Hot Key Mode or the Auto Scan Mode.
While in the Hot Key Mode, holding the <Shift> key down and pressing the <Scroll Lock> key twice will not cause the host name to be shown/hidden.
The current Show/Hide Server Name state is retained after switching the server via selector buttons or OSD.

If an FS-10x series device (previous model) is used in a cascaded setup, some or all of the server names may not be displayed, depending on the exact setup used.

- If a device that is not capable of showing server names is used as the master device, no server names will be shown.
- If a device that is not capable of showing server names is used as a slave device, no server names will be shown for the channels of that device.

6.13 EDID Setting Mode

After pressing the Hot-Key SW, the <Ctrl>+<Alt>+<Shift> keys, or double pressing the <Scroll Lock> to enter Hot Key Mode A, pressing the <N> key causes the display to switch to the Customer Mode:



The top line accesses the EDID Setting Mode.
The bottom line displays the firmware version currently installed.

Pressing the <Enter> key on this screen causes the text background to turn purple, while the EDID information is retrieved from the monitor connected to the console port and written to the internal ROM.
After the ROM has been written, the message "PNP MONITOR" is displayed.
When EDID information cannot be retrieved from the connected monitor, the message "DEFAULT MONITOR" is displayed, and "00" is written to the ROM.
If a new monitor is connected, and the EDID Setting performed, the internal ROM setting is subsequently transmitted to each host automatically.

The EDID Setting Mode may be ended as follows:
Press the <P> key to return to the Server Selection screen.
Press the <Esc> key to escape the Hot Key Mode and return to the usual console screen.

Point

EDID for 15" LCDs (Console Drawer) is set before the Console Drawer is shipped from the factory.
When Console Drawer is used in a non-cascaded connection, EDID setting is not required.
Set EDID when other monitors are connected to Console Drawer, or when a cascaded connection is made.

6.14 Storing Console Drawer

The Console Drawer should be stowed away in the rack when the monitor and keyboard are not in use.

Point

Slide the Console Drawer in and out of the rack slowly and with care.

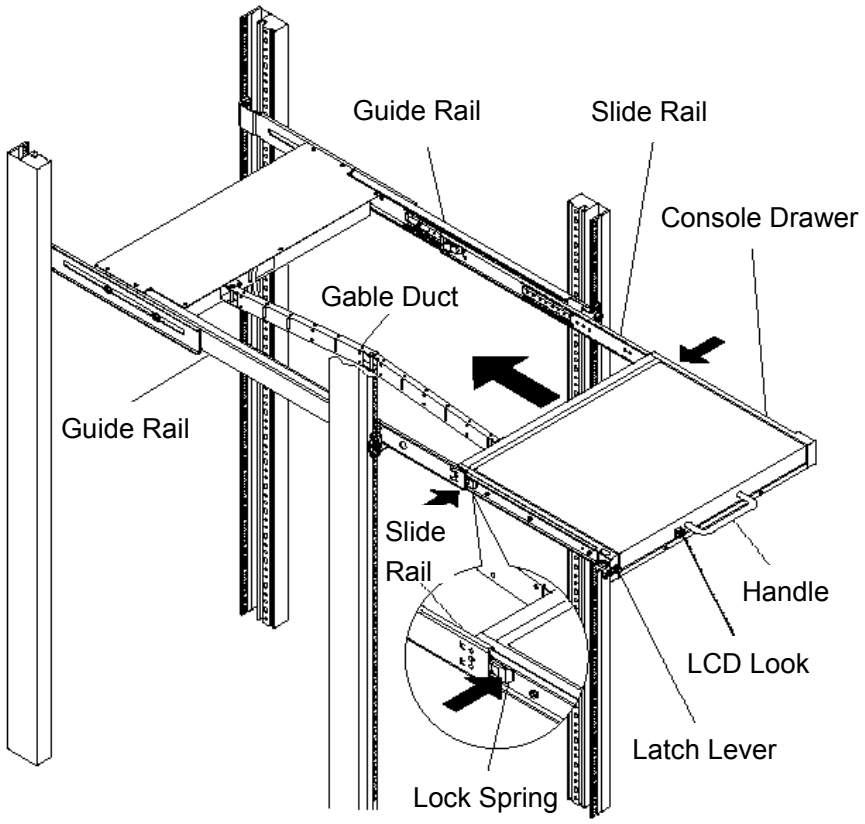
1. Push the monitor power button to turn off the power to the monitor.
2. Hold the handle and slowly close the monitor. Be sure that the LCD lock engages.
3. Push the locking springs on both sides of the slide rail and slide the Console Drawer into the rack. Be sure the latch lever engages.

⚠ CAUTION

Be careful not to pinch your fingers in the guide rails, slide rails, or the Console Drawer itself when stowing the Console Drawer. If the latch lever does not lock, the Console Drawer can unexpectly slide out.

Point

We recommend turning off the monitor's power when it is not in use, to conserve electricity. Power is still supplied to the keyboard and mouse even if power to Console Drawer is turned off, so there are no problems with server operation.



"Stowing the Console Drawer"

6.15 Cleaning the Console Drawer

CAUTION

Turn off the power and unplug the power cable from the power socket.
Do not use cleansers that contain abrasives; or such organic solvents as benzene or thinner glue; or disinfectant alcohol.
Do not apply water, detergent, or spray-type cleaners directly onto the Console Drawer. If liquids enter the interior of the Console Drawer it can cause malfunctions or damage

Wipe the Console Drawer and monitor with a clean dry soft cloth. If the dirt is excessive, wipe it off with a damp-dry soft cloth that has been (thoroughly wrung out after dipping in water).

Remove dust with a soft-bristle brush.

Clean the keyboard and pointing device with a damp-dry cloth.

7. Technical Specifications

Item			Specification	
Product ID (KVM Switch Integrated Console Drawer)			FD-1008AT/U	FD-1016AT/U
Number of Connected Servers			Max. 8 (more if connections are cascaded)	Max. 16 (more if connections are cascaded)
Selection Method			OSD Display (Hot Key Mode)	
Hot Key Mode			Manual (key operation)/Auto Scan Mode	
Auto Scan Cycle			3/5/10 (default), 20/40/60 seconds	
Monitor Plug & Play Function			VESA DDC2 compatible	
LED Display		Power	1 (Green)	
		Indicator lamp	1 (Orange)	
KVM Switch Part	Con-sole Ports	Keyboard	PS/2 Interface, Mini DIN 6P Female × 1 (Color: Purple)	
		Mouse	PS/2 Interface, Mini DIN 6P Female × 1 (Color: Green)	
		Monitor	Analog RGB Separate Sync. Mini D-SUB 15P Femalex1 (Color: Blue)	
	Server port	Connector	Mini D-SUB 15P Female x 8 (Black)	Mini D-SUB 15P Female x 16 (Black)
		Input device I/F	Support available I/F with usage of unique optional cables: - PS/2 keyboard and PS/2 mouse I/F - PC USB 1.1 compliant I/F - Sun I/O I/F - Sun USB I/F	
		Monitor	Analog RGB Separate Sync. Mini D-SUB 15P Female x 1	
Monitor Part	Panel monitor		15" TFT color LCD	
	Resolution		Max. horizontal 1024 (dots) x vertical 768 (lines)	
	Refresh rate		Max.75 Hz	
	Video Signal		Analog RGB / Separate Sync.	
	Colors:Max		16,777,216(dithered)	
	Connector		mini D-SUB 15-pin, analog RGB, (Color: Blue)	
	Power consumption		Max.34W In standby mode: 3.0 W or less When backlight is OFF: 14.0 W or less	
Key-board	Layout		Us layout/ EU layout/Japanese layout	
	Number of keys		83/84/87 keys	
	Connector		mini DIN 6-pin, PS/2, (Color: Purple)	
Pointing Device	Model		Static Touch Pad	
	Resolution		220 cpi (counts/inch)	
	Connector		Mini DIN 6-Pin, PS/2 (Color: Green)	
	Number of buttons		3	

Item		Specification	
Product ID		FD-1008AT/U	FD-1016AT/U
Current supply to keyboard/mouse		Max. 300mA	Max. 150mA
Rate voltage range		100V AC - 240V AC ,	
Frequency		50/60Hz	
Rated current		0.55A/100V , 0.3A/240V	
Operating Temperature		5 to 35 °C / 10-80%RH（no condensation）	
Size (Typ) Main part (W x D x H)	(1) Slide rail retracted	485 mm x 642 mm x 42 mm	
	(2) Slide rail extended	485 mm x 1117 mm x 42 mm	
	(3) (2)plus LCD is fully open	485 mm x 1077 mm x 345 mm	
Construction		Painted (Black) Metal Case	
Weight (Typ)		13kg	
Standards		TUV/GS, FCC A, CE, VCCI A, MIC,C-Tick	
TUV/GS: EN60950: 2000			
FCC part15B		CLASS A	
Canada ICES-003		CLASS A	
CE: EN55022:1998 CISPR22:1997 EN55024:1998,A1:2001, A2:2003 EN61000-3-2:2000 EN61000-3-3:1995/ A1:2001		CLASS A CLASS A	
VCCI		CLASS A	
MIC		CLASS A	
C-Tick: AS/NZS: 2002, CISPR22:1997, A1:2000		CLASS A CLASS A	

- **Optional Accessories (Sold separately)**

Item			Product ID	Remark
AC cable	AC Power cable		NC14004-B074	For 8-, 16-port KVM, and all US drawer models*
	AC Adaptor cable		NC14004-B077	For 2-**, 4-port KVM, Cat5 Extender
Interface cables	PC cable	1.8 m	NC14000-B602	Successor of NC14000-B002. Use this for cascade connection
		3.0 m	NC14000-B603	Successor of NC14000-B003
		5.0 m	NC14000-B605	Successor of NC14000-B005
	USB cable	1.8 m	NC14000-B102	
		3.0 m	NC14000-B103	
		5.0 m	NC14000-B105	
	Sun I/O cable	1.8 m	NC14000-B202	
		3.0 m	NC14000-B203	
		5.0 m	NC14000-B205	

Note: 1. Above P/N for AC cable is US model.
2. AC cable are available for another countries. Contact your Fujitsu Components salespersons.
3. * All US drawer models include AC power cable.
** US 2-port KVM (ATL model) includes AC adapter cable.

Item	Product ID	Product ID
Guide Rail	NC14003-T591	M6 tapped rack installation (holes)
	NC14003-T592	untapped rack installation (oblong holes) Installation from front/rear
	NC14003-T593	untapped rack installation (oblong holes) Installation from side

8. Troubleshooting

8.1 No Monitor Display

Symptom	Predicted cause	Solution
LED light for “Power Indicator” is turned off.	The AC cable is not connected to the electric outlet, or to the switch device, or not inserted into the socket properly.	Connect the AC cable properly.
	The AC power is off.	Turn on the AC power.
	POWER button was turned off. Power lamp (green) is out.	Turn POWER button ON.
	No image signal from server. (Suspended state)	Input image signal from server.
Power Indicator glows orange. Or display shows message of “POWER SAVING” when pressing the “MENU/ENTER” button.	The server is in the stand-by mode.	Press any key in keyboard or operate the touchpad, which makes the server unlock the stand-by mode.
	The monitor cable is not connected, or ot inserted into the socket properly.	Connect the monitor cable properly.
Although the Power Indicator glows, the Monitor does not display at all, or the Monitor only displays one of the following messages. “OUT OF RANGE H: ***kHz V: ***kHz, SEE USER’S MANUAL,” or “NO SYNC SIGNAL, SEE USER’S MANUAL”	The setting value for resolution and refresh rate in server is out of this product capability.	Set the proper resolution and refresh rate in the server, which can be supported by this product.
	The AC power for this product was turned on after the power for the server was turned on	Turn on the AC power for this product, before or at the same time when the power for server is turned on.
	The monitor cable is not connected, or not inserted into the socket properly.	Connect the monitor cable properly
	The video signal from server is not sent as separate sync signal.	This product does not support ıe composite sync signal, and ıeed to change the server setting ɔr video signal as separate sync ignal.

8.2 Inability to Adjust Monitor Display

Symptom	Predicted cause	Solution
AUTO/EXIT button does not work for automatic setting/adjustment. Instead, following message is displayed in monitor. "AUTO ADJUSTMENT FAILED, SEE USER'S MANUAL".	Automatic adjustment was made, when the monitor displayed in the extremely dark mode.	Make the automatic adjustment by pressing the AUTO/EXIT button after changing the display as white as possible.
Following message is displayed. "UNSUPPORTED MODE, SEE USER'S MANUAL"	The setting value for resolution and refresh rate in server is out of this product capability.	Confirm the existing resolution and refresh rate for monitor display through the information of display MENU. Then, set the resolution and refresh rate in the server, which are same value as the confirmation made above.

8.3 Other Irregularities in Monitor Display

Symptom	Predicted cause	Resolution
Dancing pixel	The FOCUS setting is not proper.	Adjust setting in FOCUS.
Vertical stripe on monitor.	Monitor setting is not proper.	Adjust setting in CLOCK, and then adjust setting in FOCUS.
Display some noise in black display mode.	Video signal from server produces the noise.	Decrease the value of black color offset level for OSD function in BLACK LEVEL.
Window for display shifts, displays over window, displays much small than the window.	Display positioning is not adjusted properly.	Adjust display position properly in POSITION, after adjustment value in CLOCK.
	The setting value for resolution in server is out of this product capability.	Set the proper resolution in the server, which can be supported by this product.
Monitor turn off occasionally.	AC cable is not inserted into the socket properly.	Confirm and connect the AC cable properly.
Uneven thickness of letters, subject to the position displayed in monitor	The setting in FOCUS and CLOCK is not proper.	Adjust setting in CLOCK, then adjust the setting in FOCUS.

	Displayed in lower resolution less than 1024 x 768.	Full-screen display is made by digital interpolation of the low-res output, not by physical magnification. So, letters may be blurred and the thickness of thin lines might be uneven by this scaling function. This is not a display failure, and the device can be used normally. Set resolution as 1024 x 768 in "property of monitor" in server, for displaying in best mode.
Poor screen quality (Faded images, blurred characters, etc.)	Connection/cable is defective.	Confirm the connector connection. Replace with a different cable. If this solves the problem, replace with a new cable.
	Adjustment of monitor does not give suitable results.	Push Auto switch.
Window shifts or does not display when switching	Wrong resolution.	Adjust the resolution or change the monitor settings.
	Monitor not supported or out-of-sync when a monitor other than the monitor for Console Drawer is connected.	Connect compatible (multi-sync) monitor. Adjust on monitor side.

8.4 Others

Symptom	Cause	Action
Keyboard and mouse do not operate, or operate strangely.	The key repeat is abnormal.	Change the speed setting for the key repeat on the server.
	Connections to PS/2 ports are disconnected.	Check the connection and connect the mouse and keyboard properly.
	Connection to PS/2 ports is in reverse with the keyboard and the mouse.	Correctly connect mouse and keyboard.
	A non-specified cable is used.	Use a specified cable.
	A non-supported keyboard or mouse is connected.	Replace with a supported keyboard or mouse.
	Cannot get out of Hot Key Mode.	Press the [Enter]or[ESC]key.
Operation stops after a period of normal operation.	Connection has been disrupted.	Check the connections and then restart.
	The switcher is hung up.	Press the reset button.
	A problem has occurred at the server.	Correct the problem at the server.

Cannot go into Auto Scan Mode	Device is not in Hot Key Mode.	Set Hot Key. Mode, press the number key (0).
	Wrong key.	Press the number key (0).
Cannot switch to the Hot Key Mode	Wrong key.	First level, press the number keys (1 through 8). Second level, press F1 through F8.
The auto scan switch cycle is abnormal.	The switch cycle has not been adjusted. (The default value is 10 seconds)	Use the cursor keys (↑ and ↓) to adjust it.
Cascaded connections are not recognized.	A problem has occurred at the switcher.	Press the reset switch. (Both the slave and the master)
The OSD display flashes at 5-second cycles.	No image (H/V Sync) signal from server (suspended state).	Input image (H/V Sync) signal. Or, switch to server having an image (H/V Sync) signal.

NOTE

NOTE

KVM Switch Integrated Console Drawer [FD-10XXAT Series]

User's Manual

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Please contact your local or regional waste administration to be informed about the collection, reuse and recycling systems.

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